

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A CPAP system comprising:
a mask to be placed over a wearer's face, said mask having
a shell;
a cushion provided to the shell to sealingly connect the mask to the wearer's face
and thereby form a chamber between the shell and the wearer's face; and
an inlet port in said shell to receive a flow of breathable gas; and
an air flow generator, said air flow generator being mounted on said mask and being
capable of creating a pressure of about 2-40cm H₂O in said chamber, wherein the air flow
generator comprises an impeller, a motor to drive the impeller, and a housing substantially
surrounding at least the impeller by conforming substantially to a shape and size of the impeller.
2. (Original) The system of claim 1, wherein the mask is structured to cover the wearer's
nasal and oral region.
3. (Previously Presented) The system of claim 1, wherein the mask is constructed to avoid
obstruction of the wearer's vision or field of view.
4. (Previously Presented) The system of claim 1, wherein said mask is absent a dust filter.

5. (Previously Presented) The system of claim 1, wherein the mask is designed to have said inlet port located over the wearer's oral region.
6. (Previously Presented) The system of claim 1, wherein said air flow generator has an air intake opening and an air outlet, said air outlet being positioned co-axial to said air inlet port of the mask.
7. (Previously Presented) The system of claim 6, wherein a perforated screen is positioned between said air outlet and said inlet port.
8. (Previously Presented) The system of claim 1, wherein said cushion comprises a silicone elastomer.
9. (Previously Presented) The system of claim 1, wherein said housing forms a contiguous surface with the shell.
10. (Previously Presented) The system of claim 9, further comprising a power cord and a power source, said power cord connecting said power source to said motor.
11. (Original) The system of claim 10, wherein said power source is a battery pack.
12. (Original) The system of claim 11, wherein said battery pack comprises at least one fastener to mount the battery pack to said wearer's body.

13. (Previously Presented) The system of claim 1, further comprising a self-contained power source.

14.-26. (Cancelled)

27. (Withdrawn) The system of claim 1, wherein said air flow generator is selectively detachable from the shell.

28. (Withdrawn) The system of claim 27, wherein the air flow generator and shell are coupled with a quick release clip.

29. (Withdrawn) The system of claim 1, further comprising at least one sensor provided to the mask.

30. (Withdrawn) The system of claim 29, wherein the sensor is structured to provide a signal indicative of the fit of the mask.

31. (Withdrawn) The system of claim 29, wherein the sensor is structured to provide a signal indicative of leak on the basis of which the flow generator is adapted to be controlled.

32. (Previously Presented) The system of claim 1, wherein the shell comprises an extension configured to engage the wearer's forehead.

33. (Previously Presented) The system of claim 32, wherein the extension comprises at least one strap connector configured to receive a headgear strap.

34. (Cancelled)

35. (Currently Amended) The system of claim [[34]] 1, wherein the impeller comprises an axial fan, a radial fan, or a centrifugal fan.

36. (Cancelled)

37. (Currently Amended) The system of claim [[36]] 1, further comprising a power cord attached to the motor.

38. (Currently Amended) A CPAP system, comprising:

a mask configured to cover at least a nasal region of a wearer's face and form an air chamber in communication with the airways of the wearer, the mask comprising a shell and a cushion attached to the shell and configured to sealingly engage the wearer's face, the shell comprises an outer surface and an inner surface and an air inlet port extending through the shell from the outer surface to the inner surface, the shell further comprising a vent opening extending through the shell from the inner surface to the outer surface; and

a flow generator provided on the outer surface of the shell, the flow generator comprising a housing having an air inlet and an air outlet, the flow generator further comprising a motor and

an impeller configured to be driven by the motor, the impeller being substantially surrounded by the housing which conforms substantially to a shape and size of the impeller, and a power cord connected to the motor, wherein the flow generator is configured to create a pressure of about 2-40 cm H₂O in the air chamber.

39. (Previously Presented) The system of claim 38, further comprising an insert provided in the vent opening that is configured to control exhaust from the mask.

40. (Previously Presented) The system of claim 38, further comprising at least one supplemental inlet port configured to introduce supplemental gas into the air chamber.

41. (Previously Presented) The system of claim 38, wherein the flow generator housing is selectively detachable from the shell.

42. (Previously Presented) The system of claim 38, wherein the flow generator housing comprises a first part and a second part, and the first and second parts are selectively separable from each other.

43. (Previously Presented) The system of claim 38, further comprising a power source connected to the power cord.

44. (Previously Presented) The system of claim 43, wherein the power source is configured to be attached to a part of the wearer's body, clothing, or a headgear system configured to be attached to the mask.

45. (New) The system of claim 1, wherein the housing comprises a first part and a second part, and the first part and the second part are attached to an outer surface of the shell.

46. (New) The system of claim 1, wherein the housing conforms substantially to a shape and size of the motor.